EAST Search History

Ref #.	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	203327	(data near (replicat$6 or mirror$5)) or ("back up" or "back-up" or backup or "backing up")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:20
L2	580	"write command" near transmit$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:19
L3	164	("write command" near transmit$6) same ("primary host" or host or secondary or destination)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:20
L4	58	((data near (replicat$6 or mirror$5)) or ("back up" or "back-up" or backup or "backing up")) and (("write command" near transmit$6) same ("primary host" or host or secondary or destination))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:26
L5	3	((data near (replicat$6 or mirror$5)) or ("back up" or "back-up" or backup or "backing up")) and (("write command" near transmit$6) same ("primary host" or host or secondary or destination)) and (data with set with ID)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:23
L6	1	((data near (replicat$6 or mirror$5)) or ("back up" or "back-up" or backup or "backing up")) and (("write command" near transmit$6) same ("primary host" or host or secondary or destination)) and (data near set near ID)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:22
L7	44	((data near (replicat$6 or mirror$5)) or ("back up" or "back-up" or backup or "backing up")) and (("write command" near transmit$6) same ("primary host" or host or secondary or destination)) and (id or "sequence number" or (log$4 near2 number))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:27
L8	37054	"707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:28

L9	47294	"709"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:28
L10	30514	"711"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:28
L11	54546	"714"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:28
L12	157694	8 or 9 or 10 or 11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:28
L13	36	7 and 12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:29
L14	9	7 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/27 16:30

	Document ID	Kind Codes	Source	Issue Date	Pages
1	US 20060168411 A1		US-PGPUB	20060727	36
2	US 20060107010 A1		US-PGPUB	20060518	32
3	US 20060095482 A1		US-PGPUB	20060504	72
4	US 20060080502 A1		US-PGPUB	20060413	39
5	US 20060047908 A1		US-PGPUB	20060302	70
6	US 20060047664 A1		US-PGPUB	20060302	75
7	US 20060010180 A1		US-PGPUB	20060112	22
8	US 20060005074 A1		US-PGPUB	20060105	58
9	US 20050235107 A1		US-PGPUB	20051020	36
10	US 20050193182 A1		US-PGPUB	20050901	17
11	US 20050149683 A1		US-PGPUB	20050707	48
12	US 20050149554 A1		US-PGPUB	20050707	49
13	US 20050149548 A1		US-PGPUB	20050707	50

	Title	Abstract
1	Method for controlling storage system, and storage control apparatus	
2	Storage system and data migration method of storage system	
3	Data processing system and storage subsystem provided in data processing system	
4	Storage apparatus	
5	Disk array apparatus	
6	Data processing system and storage subsystem provided in data processing system	
7	Disaster recovery processing method and apparatus and storage unit for the same	
8	Remote data mirroring	
9	Method for controlling storage system, and storage control apparatus	
10	Method and apparatus for preventing un-authorized computer data access	
11	Methods and systems for data backups	
12	One-way data mirror using write logging	
13	One-way data mirror using copy-on-write	

	Current OR	Current XRef	Retrieval Classif	Inventor
1	711/162	711/165		Ohno; Hiroshi et al.
2	711/165			Hirezaki; Katsumi et al.
3	707/204			Suzuki; Toru et al.
4	711/112	711/170; 711/202		Sakaki; Hidetoshi et al.
5	711/114	711/167		Chikusa; Takashi et al.
6	707/10			Suzuki; Toru et al.
7	707/204			Kawamura; Nobuo et al.
8	714/5			Yanai; Moshe et al.
9	711/112	711/165; 711/170		Ohno, Hiroshi et al.
10	711/163	711/112		Anderson, Laurence G. et al.
11	711/162	711/167		Chong, Fay JR. et al.
12	707/103R			Chong, Fay JR.
13	707/102			Chong, Fay JR.

	Document ID	Kind Codes	Source	Issue Date	Pages
14	US 20050144406 A1		US-PGPUB	20050630	48
15	US 20050091391 A1		US-PGPUB	20050428	21
16	US 20050060506 A1		US-PGPUB	20050317	40
17	US 20040193658 A1		US-PGPUB	20040930	26
18	US 20040073831 A1		US-PGPUB	20040415	57
19	US 20040044649 A1		US-PGPUB	20040304	77
20	US 20030221077 A1		US-PGPUB	20031127	42
21	US 20030217119 A1		US-PGPUB	20031120	52
22	US 7055059 B2		USPAT	20060530	59
23	US 7051121 B2		USPAT	20060523	36
24	US 7039660 B2		USPAT	20060502	29

	Title	Abstract
14	Data storage systems and processes, such as one-way data mirror using write mirroring	
15	Data replication in data storage systems	
16	Storage system and storage control device	
17	Disaster recovery processing method and apparatus and storage unit for the same	
18	Remote data mirroring	
19	Data copying system, relaying device, data transfer/reception system and program for copying of data in storage unit	
20	Method for controlling storage system, and storage control apparatus	
21	Replication of remote copy data for internet protocol (IP) transmission	
22	Remote data mirroring	
23	Method for controlling storage system, and storage control apparatus	
24	Disaster recovery processing method and apparatus and storage unit for the same	

	Current OR	Current XRef	Retrieval Classif	Inventor
14	711/162			Chong, Fay JR.
15	709/230	711/162		Burton, David Alan et al.
16	711/162	711/170		Higaki, Seiichi et al.
17	707/202			Kawamura, Nobuo et al.
18	714/7			Yanai, Moshe et al.
19	707/1		`	Yamato, Jun-Ichi et al.
20	711/165	711/113; 711/114		Ohno, Hiroshi et al.
21	709/219	714/6		Raman, Suchitra et al.
22	714/7	714/707		Yanai; Moshe et al.
23	710/5	710/36; 710/74; 711/111; 711/112		Ohno; Hiroshi et al.
24	707/204	200/201; 200/202; 200/203; 200/205		Kitsuregawa; Masaru et al.

	Document ID	Kind Codes	Source	Issue Date	Pages
25	US 6823336 B1		USPAT	20041123	26
26	US 6502205 B1		USPAT	20021231	58
27	US 6389509 B1		USPAT	20020514	52
28	US 6173377 B1		USPAT	20010109	56
29	US 6052797 A		USPAT	20000418	56
30	US 6044444 A		USPAT	20000328	58
31	US 5901327 A		USPAT	19990504	55

	Title	Abstract
25	Data storage system and method for uninterrupted read-only access to a consistent dataset by one host processor concurrent with read-write access by another host processor	
26	Asynchronous remote data mirroring system	
27	Memory cache device	
28	Remote data mirroring	
29	Remotely mirrored data storage system with a count indicative of data consistency	
30	Remote data mirroring having preselection of automatic recovery or intervention required when a disruption is detected	
31	Bundling of write data from channel commands in a command chain for transmission over a data link between data storage systems for remote data mirroring	

	Current OR	Current XRef	Retrieval Classif	Inventor
25	707/8	707/201		Srinivasan; Sudhir et al.
26	714/7	714/718		Yanai; Moshe et al.
27	711/113	710/22; 710/23; 710/27; 711/111; 711/112; 711/115; 711/117; 711/118; 711/138; 711/150; 711/170; 711/171; 711/172; 711/173; 711/3; 711/4		Berenguel; Leo et al.
28	711/162	711/154; 711/161; 711/165		Yanai; Moshe et al.
29	714/6	709/219		Ofek; Yuval et al.
30	711/162	710/1; 711/161; 714/5; 714/6; 714/718; 714/763		Ofek; Yuval
31	710/5	709/232; 711/100; 711/112		Ofek; Yuval

	Document ID	Kind Codes	Source	Issue Date	Pages
32	US 5889935 A		USPAT	19990330	59
33	US 5884093 A		USPAT	19990316	74
34	US 5742792 A		USPAT	19980421	58
35	US 5561770 A		USPAT	19961001	41
36	US 5155845 A		USPAT	19921013	46

	Title	Abstract
32	Disaster control features for remote data mirroring	
33	Hard disk cache for CD-ROM and other slow access time devices	
34	Remote data mirroring	
35	System and method for determining whether to transmit command to control computer by checking status of enable indicator associated with variable identified in the command	
36	Data storage system for providing redundant copies of data on different disk drives	

	Current OR	Current XRef	Retrieval Classif	Inventor
32	714/6	709/217		Ofek; Yuval et al.
33	710/1	710/22; 710/23; 710/27; 711/117; 711/118		Berenguel; Leo P. et al.
34	711/162	710/1; 711/161; 711/165; 714/5; 714/6; 714/710; 714/718; 714/763		Yanai; Moshe et al.
35	709/225	700/17; 700/18; 700/28; 713/164; 713/166; 714/13; 726/4		de Bruijn; Ronny P. et al.
36	714/6			Beal; David G. et al.

	Document ID	Kind Codes	Source	Issue Date	Pages
1	US 20060095482 A1		US-PGPUB	20060504	72
2	US 20060047664 A1		US-PGPUB	20060302	75
3	US 20060010180 A1		US-PGPUB	20060112	22
4	US 20050149554 A1		US-PGPUB	20050707	49
5	US 20050149548 A1		US-PGPUB	20050707	50
6	US 20040193658 A1		US-PGPUB	20040930	26
7	US 20040044649 A1		US-PGPUB	20040304	77
8	US 7039660 B2		USPAT	20060502	29
9	US 6823336 B1		USPAT	20041123	26

	Title	Abstract
1	Data processing system and storage subsystem provided in data processing system	
2	Data processing system and storage subsystem provided in data processing system	
3	Disaster recovery processing method and apparatus and storage unit for the same	
4	One-way data mirror using write logging	
5	One-way data mirror using copy-on-write	
6	Disaster recovery processing method and apparatus and storage unit for the same	
7	Data copying system, relaying device, data transfer/reception system and program for copying of data in storage unit	
8	Disaster recovery processing method and apparatus and storage unit for the same	
9	Data storage system and method for uninterrupted read-only access to a consistent dataset by one host processor concurrent with read-write access by another host processor	

	Current OR	Current XRef	Retrieval Classif	Inventor
1	707/204			Suzuki; Toru et al.
2	707/10			Suzuki; Toru et al.
3	707/204			Kawamura; Nobuo et al.
4	707/103R			Chong, Fay JR.
5	707/102			Chong, Fay JR.
6	707/202			Kawamura, Nobuo et al.
7	707/1			Yamato, Jun-Ichi et al.
8	707/204	200/201; 200/202; 200/203; 200/205		Kitsuregawa; Masaru et al.
9	707/8	707/201		Srinivasan; Sudhir et al.

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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1-25 | 26-29

☐ 1. **Increasing resiliency through priority scheduling of asynchronous data replication**
Adams, K.P.; Gracanin, D.; Hinchey, M.G.;
Parallel and Distributed Systems, 2005. Proceedings. 11th International Conference on
Volume 1, 20-22 July 2005 Page(s):356 - 362 Vol. 1
Digital Object Identifier 10.1109/ICPADS.2005.171
Summary: Distributed systems commonly replicate data to enhance system dependability. In such systems, a logical update on a data item results in a physical update on a number of copies. The synchronization and communication required to keep the copies of rep.....

AbstractPlus | Full Text: PDF(280 KB)   IEEE CNF
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☐ 2. **Fault-tolerant replication in networks with asynchronous communication link failures**
Lazoff, D.M.; Stephens, A.B.;
Performance, Computing, and Communications Conference, 1997. IPCCC 1997., IEEE International
5-7 Feb. 1997 Page(s):131 - 136
Digital Object Identifier 10.1109/PCCC.1997.581493
Summary: We investigate the problem of locating data replicas in a network in order to maximize data availability. In particular, we analyze the complexity of computing optimal placements in networks in which communication link failures are asynchronous (i.e......

AbstractPlus | Full Text: PDF(396 KB)   IEEE CNF
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☑ 3. **MS-I/O: A Distributed Multi-Storage I/O System**
Xiaohui Shen; Choudhary, A.;
Cluster Computing and the Grid, 2002. 2nd IEEE/ACM International Symposium on
21-24 May 2002 Page(s):163 - 163
Digital Object Identifier 10.1109/CCGRID.2002.1017124
Summary: More and more parallel applications are running in a distributed environment to take advantage of easily available and inexpensive commodity resources. For data intensive applications, employing multiple distributed storage resources has many advant.....

AbstractPlus | Full Text: PDF(216 KB)   IEEE CNF
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☑ 4. **Deno: a decentralized, peer-to-peer object-replication system for weakly connected environments**
Cetintemel, U.; Keleher, P.J.; Bhattacharjee, B.; Franklin, M.J.;
Computers, IEEE Transactions on
Volume 52, Issue 7, Jul 2003 Page(s):943 - 959
Digital Object Identifier 10.1109/TC.2003.1214342
Summary: This paper presents the design, implementation, and evaluation of the replication framework of Deno, a decentralized, peer-to-peer object-replication system targeted for weakly connected environments. Deno uses weighted voting for availability and pa.....

AbstractPlus | Full Text: PDF(1531 KB)   IEEE JNL

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5. Data replication in collaborative sensor network systems
Gracanin, D.; Adams, K.P.; Eltoweissy, M.;
Performance, Computing, and Communications Conference, 2006. IPCCC 2006. 25th IEEE International
10-12 April 2006 Page(s):8 pp.
Digital Object Identifier 10.1109/.2006.1629431
Summary: When sensor networks overlap in their coverage areas, sensors in the common areas can be simultaneously shared among multiple networks. The shared sensors provide opportunities to support collaboration among sensor networks. Collaboration enriches fu.....
AbstractPlus | Full Text: PDF(435 KB)   IEEE CNF
Rights and Permissions

6. Strategies for integration of a non-OO EIS and the J2EE framework
Shengru Tu; Gongqin Li; Augustin, P.;
Computer Software and Applications Conference, 2002. COMPSAC 2002. Proceedings. 26th Annual International
26-29 Aug. 2002 Page(s):246 - 251
Digital Object Identifier 10.1109/CMPSAC.2002.1044559
Summary: In this paper, we report an architectural design that integrates a large-scale PeopleSoft human resource system into the J2EE framework by using the vendor's messaging mechanism. A unique situation of this project is that the COTS part and the J2EE c.....
AbstractPlus | Full Text: PDF(258 KB)   IEEE CNF
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7. Adaptive overlapped declustering: a highly available data-placement method balancing access load and space utilization
Watanabe, A.; Yokota, H.;
Data Engineering, 2005. ICDE 2005. Proceedings. 21st International Conference on
5-8 April 2005 Page(s):828 - 839
Digital Object Identifier 10.1109/ICDE.2005.16
Summary: This paper proposes a new data-placement method named adaptive overlapped declustering, which can be applied to a parallel storage system using a value range partitioning-based distributed directory and primary-backup data replication, to improve the.....
AbstractPlus | Full Text: PDF(432 KB)   IEEE CNF
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8. A near optimal approach to quality of service data replication scheduling
Adams, K.; Gracanin, D.; Teodorovic, D.;
Simulation Conference, 2004. Proceedings of the 2004 Winter
Volume 2, 5-8 Dec. 2004 Page(s):1847 - 1855 vol.2
Digital Object Identifier 10.1109/WSC.2004.1371539
Summary: This paper describes an approach to real-time decision-making for quality of service based scheduling of distributed asynchronous data replication. The proposed approach addresses uncertainty and variability in the quantity of data to replicate over .....
AbstractPlus | Full Text: PDF(469 KB)   IEEE CNF
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9. The fluid computing middleware: bringing application fluidity to the mobile Internet
Bourges-Waldegg, D.; Duponchel, Y.; Graf, M.; Moser, M.;
Applications and the Internet, 2005. Proceedings. The 2005 Symposium on
31 Jan.-4 Feb. 2005 Page(s):54 - 63
Digital Object Identifier 10.1109/SAINT.2005.63
Summary: The fluid computing middleware allows application data to flow, as a liquid, between devices. The middleware, based on the model-view-controller design pattern, transforms a collection of devices into a cooperative platform and provides application p.....
AbstractPlus | Full Text: PDF(608 KB)   IEEE CNF
Rights and Permissions

10.
Dynamic data replication: an approach to providing fault-tolerant shared memory clusters
Christodoulopoulou, R.; Azimi, R.; Bilas, A.;
High-Performance Computer Architecture, 2003. HPCA-9 2003. Proceedings. The Ninth International Symposium on
8-12 Feb. 2003 Page(s):203 - 214
Digital Object Identifier 10.1109/HPCA.2003.1183538

Summary: A challenging issue in today's server systems is to transparently deal with failures and application-imposed requirements for continuous operation. In this paper we address this problem in shared virtual memory (SVM) clusters at the programming abstr.....

AbstractPlus | Full Text: PDF(366 KB)   IEEE CNF
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11. **Reconciliation in the APPA P2P System**
Martins, V.; Akbarinia, R.; Pacitti, E.; Valduriez, P.;
Parallel and Distributed Systems, 2006. ICPADS 2006. 12th International Conference on
Volume 1, 12-15 July 2006 Page(s):401 - 410
Digital Object Identifier 10.1109/ICPADS.2006.91
Summary: In Peer-to-peer (P2P) systems, there has been little work on managing data replication in the presence of updates. However, important P2P applications that involve collaboration require multi-master replication support. In this paper, we adopt optimi.....

AbstractPlus | Full Text: PDF(344 KB)   IEEE CNF
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12. **Agile Store: experience with quorum-based data replication techniques for adaptive Byzantine fault tolerance**
Kong, L.; Manohar, D.J.; Arun Subbiah; Sun, M.; Ahamad, M.; Blough, D.M.;
Reliable Distributed Systems, 2005. SRDS 2005. 24th IEEE Symposium on
26-28 Oct. 2005 Page(s):143 - 154
Digital Object Identifier 10.1109/RELDIS.2005.7
Summary: Quorum protocols offer several benefits when used to maintain replicated data but techniques for reducing overheads associated with them have not been explored in detail. It is desirable that a system be able to adapt its operation so that fault tole.....

AbstractPlus | Full Text: PDF(384 KB)   IEEE CNF
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13. **A replica control method for improving availability for read-only transactions**
Chang Sup Park; Myoung Ho Kim; Yoon Joon Lee;
Database Engineering and Applications Symposium, 1997. IDEAS '97. Proceedings., International
25-27 Aug. 1997 Page(s):104 - 112
Digital Object Identifier 10.1109/IDEAS.1997.625664
Summary: Data replication is often considered in distributed database systems to enhance availability and performance. The benefit of data replication, however can only be realized at the cost of maintaining the consistency of data. In particular, network par.....

AbstractPlus | Full Text: PDF(812 KB)   IEEE CNF
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14. **Relaxed Data Consistency with CONStanza**
Domenici, A.; Donno, F.; Pucciani, G.; Stockinger, H.;
Cluster Computing and the Grid, 2006. CCGRID 06. Sixth IEEE International Symposium on
Volume 1, 16-19 May 2006 Page(s):425 - 429
Digital Object Identifier 10.1109/CCGRID.2006.84
Summary: Data replication is an important aspect in a Data Grid for increasing fault tolerance and availability. Many Grid replication tools or middleware systems deal with read-only files which implies that replicated data items are always consistent. Howeve.....

AbstractPlus | Full Text: PDF(640 KB)   IEEE CNF
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15. **Wide area data replication for scientific collaborations**
Chervenak, A.; Schuler, R.; Kesselman, C.; Koranda, S.; Moe, B.;
Grid Computing, 2005. The 6th IEEE/ACM International Workshop on
13-14 Nov. 2005 Page(s):8 pp.
Digital Object Identifier 10.1109/GRID.2005.1542717
Summary: Scientific applications require sophisticated data management capabilities. We present the design and implementation of a data replication service (DRS), one of a planned set of higher-level data management services for Grids. The capabilities of the.....

AbstractPlus | Full Text: PDF(139 KB)   IEEE CNF
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16. **The road to a more configurable and adaptive communication and coordination support**
Rodrigues, L.;

Distributed Computing Systems. 2003. FTDCS 2003. Proceedings. The Ninth IEEE Workshop on Future Trends of
28-30 May 2003 Page(s):16 - 22
Digital Object Identifier 10.1109/FTDCS.2003.1204289
Summary: This paper discusses the problem of designing and implementing the communication and coordination
support for distributed applications. One way to implement these services is to rely on application-specific solutions, in an
attempt to obtain the best.....

AbstractPlus | Full Text: PDF(256 KB)   IEEE CNF
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17. **DataX: an approach to ubiquitous database access**
Lei, H.; Blount, M.; Tait, C.;
Mobile Computing Systems and Applications. 1999. Proceedings. WMCSA '99. Second IEEE Workshop on
25-26 Feb. 1999 Page(s):70 - 79
Digital Object Identifier 10.1109/MCSA.1999.749279
Summary: The paper describes an approach for enabling remote database access from heterogeneous thin clients.
DataX is a proxy based architecture that supports disconnected operation by replicating a subset of the database on the
mobile client, using a weak c.....

AbstractPlus | Full Text: PDF(104 KB)   IEEE CNF
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18. **Two-stage transaction processing in client-server DBMSs**
Kanitkar, V.; Delis, A.;
High Performance Distributed Computing. 1998. Proceedings. The Seventh International Symposium on
28-31 July 1998 Page(s):98 - 105
Digital Object Identifier 10.1109/HPDC.1998.709961
Summary: Shows that there is scope for replication in data-shipping client-server DBMSs, offering opportunities for
improved transaction response times. To support this replication, we describe a two-stage protocol for transaction
processing (2STP). We extend.....

AbstractPlus | Full Text: PDF(116 KB)   IEEE CNF
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19. **Real-time data management with clock-less reliable broadcast protocols**
Verissimo, P.;
Management of Replicated Data. 1990. Proceedings.. Workshop on the
8-9 Nov. 1990 Page(s):20 - 24
Digital Object Identifier 10.1109/MRD.1990.138238
Summary: Distributed applications relying on replication of data objects in several sites are becoming popular. One key
to their success is that they rely on reliable broadcast/multicast protocols. Two classes of approaches to build reliable
broadcast service.....

AbstractPlus | Full Text: PDF(376 KB)   IEEE CNF
Rights and Permissions

20. **Declustering and load-balancing methods for parallelizing geographic information systems**
Shekhar, S.; Ravada, S.; Chubb, D.; Turner, G.;
Knowledge and Data Engineering. IEEE Transactions on
Volume 10, Issue 4, July-Aug. 1998 Page(s):632 - 655
Digital Object Identifier 10.1109/69.706061
Summary: Declustering and load balancing are important issues in designing a high performance geographic information
system (HPGIS), which is a central component of many interactive applications such as real time terrain visualization.
The current literature .....

AbstractPlus | References | Full Text: PDF(1100 KB)   IEEE JNL
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21. **Practically Realizable Efficient Data Allocation and Replication Strategies for Distributed Databases with Buffer
Constraints**
Xin Gu; Wujuan Lin; Veeravalli, B.;
Parallel and Distributed Systems. IEEE Transactions on
Volume 17, Issue 9, Sept. 2006 Page(s):1001 - 1013
Digital Object Identifier 10.1109/TPDS.2006.127
Summary: In this paper, we address the performance of distributed database systems with buffer constraints.
Specifically, our objective is to design and analyze efficient data allocation and replication strategies to minimize the total
servicing cost for an a.....

AbstractPlus | Full Text: PDF(2328 KB)   IEEE JNL

☑ **22. Improving availability and performance with application-specific data replication**
Lei Gao; Dahlin, M.; Nayate, A.; Jiandan Zheng; Arun Iyengar;
Knowledge and Data Engineering, IEEE Transactions on
Volume 17, Issue 1, Jan 2005 Page(s):106 - 120
Digital Object Identifier 10.1109/TKDE.2005.10
Summary: The emerging edge services architecture promises to improve the availability and performance of Web services by replicating servers at geographically distributed sites. A key challenge in such systems is data replication and consistency, so that edge.....

AbstractPlus | Full Text: PDF(880 KB)   IEEE JNL

☐ **23. A simulation study of the effects of multi-path approaches in e-commerce applications**
Romano, P.; Quaglia, F.; Ciciani, B.;
Parallel and Distributed Processing Symposium, 2006. IPDPS 2006. 20th International
25-29 April 2006 Page(s):8 pp.
Digital Object Identifier 10.1109/IPDPS.2006.1639669
Summary: Response time is a key factor of any e-commerce application, and a set of solutions have been proposed to provide low response time despite network congestions or failures. Being them mostly based on caching of Web objects and replication of DBMS man.....

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Leslie, M.; Davies, J.; Huffman, T.;
Availability, Reliability and Security, 2006. ARES 2006. The First International Conference on
20-22 April 2006 Page(s):8 pp.
Digital Object Identifier 10.1109/ARES.2006.108
Summary: Distributed hash tables (DHTs) can be used as the basis of a resilient lookup service in unstable environments: local routing tables are updated to reflected changes in the network; efficient routing can be maintained in the face of participant node .....

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Chengdu Huang; Gang Zhou; Abdelzaher, T.F.; Sang Hyuk Son; Stankovic, J.A.;
Real-Time Systems Symposium, 2005. RTSS 2005. 26th IEEE International
05-08 Dec. 2005 Page(s):50 - 61
Digital Object Identifier 10.1109/RTSS.2005.27
Summary: In this paper we present a balanced data replication scheme that provides real-time latency bounds on content retrieval in content distribution networks. Many network applications have ever-increasing requirements on latency sensitive data services. .....

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